



THE SCOPE

NOVEMBER

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THE SCOPE



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DANCE

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DR. THEODORE F. KLEIN, Dean
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WEDNESDAY EVENING, DECEMBER 9th, 1936 at 8.15 p. m.

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T H E S C O P E

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Editorial

Why do we find so little co-operation among men? Perchance you will notice that man stands envious of his fellow-man in every walk of life, and why? If an individual through circumstances, his own lack of aggressiveness, or some other condition fails to achieve the success another has, he is the first to criticize, antagonize, and, in short, make things uncomfortable for his superior. Unwilling to accept defeat, he carries on a sort of whispering campaign, resorting to petty ways and means in order to discredit the other fellow's standing.

How much happier man might be, if he would but reconcile himself to his lot and work with one in authority, not against him. Every man cannot be born or chosen as a leader. Therefore, if the majority are satisfied with a man selected from their ranks,

isn't it sporting to fall in line and pledge support for a common cause?

If the army were made up of all corporals and no privates, every man would be giving orders, but there would be no one on hand to obey them. Chronic fault finders grow from belittlers. If you are one of those individuals whose major sport is belittling the kind gestures on the part of those in authority, refusing to co-operate, even in a small measure, unless a private consultation is held for your benefit, you certainly have a chip on your shoulder that will take many lessons in the school of hard knocks to get rid of.

It's not what you are, but where you're going that counts today. One cannot expect to go far with an unfriendly attitude coupled with a non-cooperative spirit.

Perseverance

The destiny of many men, it seems, is always to find that for which they have strived and dedicated their sincerest of efforts, efforts for which they have made all their sacrifices, is lost to them or has already been claimed by others. Then it is that the easier way, always is to become a cynic, to anoint one's hurts with a denunciation and bitterness of all their efforts. Yet this denunciation and cynicism is but an expression of real self pity and a step leading to an indifference of all that could be worth further striving for. This bitterness is what really leads to a total failure.

There are many people who live by their imaginations; who are dreamers, whose desires are mental creations. They are forever drawing imaginary pictures of those things which they hope and wish to find in a realistic world. For them it is doubly hard to find the answer to their desires. Such are the people who are more astute in judgment and every small imperfection is seen through eyes that magnify a thousand fold. They have no patience with the slightest de-

viation from their mental pictures. They are the people who will search through all eternity seeking that "eldorado"; they are the people who wreck their dreams and lives, seeking a perfection which can never be found among the composites of humanity.

To force such disappointments, is the test of man's character, for their seems to be but one solution, a solution that "smacks" of mottoes learned in grammar school, "The Will to Continue," Perseverance.

When a man finds that the acme of his desires has been fulfilled before him, that the good for which he has made *all* his sacrifices has been claimed by someone else, it is then that he needs a perspective, free of cynicism and bitterness, — a time when he must force upon himself the truth of the infinite and realize that regardless of how fine, how great a thing he may have lost, there is always something greater and finer; something which may yet be attained through that fine and wonderful test of character, the will to continue, — Perseverance.

F. W.

Courtesy

Courtesy is an inbred quality which every person should possess. It is the basis of a person's popularity and standing; no one gets very far with poor manners.

Society makes demands on us. In order that we may show ourselves well-bred and of good station, we must remember to perform certain acts of courtesy.

A person who has good intentions, who is inwardly courteous and considerate, and who keeps his eyes open, is not likely to make many serious errors. "A man is known by the company he keeps," is an excellent proverb. Choose your companions wisely. If

one had to choose between genuine courtesy, consideration for others, sympathy and kindness, I should say he should retain his native kindness, which will give him the others, too.

Perhaps the most damaging effects which come from not knowing the rules of social behavior, are those upon the minds of individuals who are uncertain. If one realizes that he is not sure of himself—or of the correct thing to do, he is at a disadvantage because of crippled personality. More attention to the forms and spirit of courtesy would eliminate this sort of catastrophe to character — and life.

Freshman News

Those looks of apprehension that are on the faces of all Freshmen are nothing more than Pre Mid-Term Jitters, which will have been dispelled ere this issue is circulated. But then, we didn't see any looks of exultation and supreme assurance on the faces of Juniors and Seniors either, if that's any solace. Here's good luck to all of us, anyway!

About a fortnight ago the class held elections, not to be outcome by that other November election, which was also important. Here are the choices:

STONEHOUSE — President

MARCH — Vice-President

DEXTER — Secretary

WAGNER — Treasurer

These men are representative of the class, and we look to them for executive direction. Congratulations, and be assured that we're all behind you!

If any itinerant soul were to stop in front of the school on Tuesdays and Fridays

around 4 P. M. he'd likely see scores of red-eyed students walking out of the door. He'd think they were probably watching a Jean Harlow movie, or even a Mickie Mouse, but he'd be wrong! They just finished trying to tell one type of lens from another, with varying degrees of success.

The Gym is one of the best of all hours, and the improvement of the Freshmen in all types of athletics is notable. Our system has been to have one of our number who is adept at a certain form of sport act as Tutor for those interested in taking up this particular branch, whether it be wrestling, basketball, squash, or what have you. The idea was concocted by Mr. Al Bresslin of the Physical Education Dept. down at the "Y," and everybody's happy. It looks as tho the M. S. O. should have a really good basketball team this year, because a lot of these Freshmen look very much at home on the basketball court, quite a few of them being former letter men.

EN ROUTE

Rumor hath it that Bessen is a softie, bringing his own rubber seat pad on which to cogitate.

Tony Salerno is rather worried about his "slight case of stereopsis."

Capone and Schiano are a couple of gourmets, with the latter holding the chef's chair. They both keep looking rather well, probably due to that extra large bottle of bicarb in the medicine chest. Our idea of Nirvana is a town full of Will Fradkins. He's broken his glasses three times in as many weeks.

Harry General, he of the gaunt mien and long gray beard, looks more like an ad for Grape-Nuts than an incipient optometrist.

Most of the pulchritude seems to have gravitated to section A for no apparent reason, three young ladies being quartered in their midst.

FRATERNITY PLEDGE SUPPER

On Wednesday night October the 21, the Pi Omicron Sigma Fraternity gave a supper to its new members. The affair was held at Boraschi's, renowned for its succulent Italian cuisine. After a steak and spaghetti repast the five pledges were made to put on an informal program prepared for them by Dr. Bernard Levin, Vice Chancellor. The five members are:

Dr. Samuel Sheinman

Mr. Pyne

Dr. James Pickering

Mr. Grossman

Mr. Harris

After the entertainment Dr. Green, the Grand Chancellor of the Fraternity gave a pep talk which was much enjoyed by the attendance. Further plans were discussed by the Chancellor, Dr. Alfred Roy and the Fraternity took up the torch with enthusiasm. The gathering broke up in the small hours after much singing and lifting of the right elbow.

A. J. R.

Fraternity Poverty Party

On Friday evening, October the 30th, the Pi Omicron Sigma Fraternity gave a very successful informal, oh very informal, party. The attendance was beyond expectations and the hilarity threatened the foundations. The decorations suffered only slightly, because they were out of reach. The cider, doughnuts and apples were received with open mouths and louder laughs as were the fines imposed on the couples having anything finable. Drs. Namias and Green, the judges, satisfied their sadistic instincts to the full in feeding it on the poor innocents, to the further glory of the Fraternity.

Thru the flying fog and swinging mist the writer could make out Fortin, showing what the up-to-date optometrist should wear, around his middle.

Pete, looking like a pelican under a foundered hat.

Barney, in rags, with his "wife" and a big smile.

Johnny and Nina, always together.

Leo and his 100 pounder with no grass on their heels.

Chevalier and escort behaving like grown-ups.

George Carvin, looking like a Revere side-show.

Farmer Ral looking like he had a chew—he might.

Smyth—dazed.

A street-cleaner with a silk hat, someone said it was the Chancellor, God forbid.

Joe and Laura (not Edna, this time) doing well—that man Joe.

The Dexter boys from up-town, always well done.

Mark and his brother Remark, stags—no line.

Several prizes were awarded by the Fraternity;

The best costume.

The lightest girl — Leo's 100 pounder.

The most substantial Al Wiskalis' bounding beauty — no flies.

The band gave out after midnight, or perhaps it was the cider. However, the group adjourned to meet again in the Old France where the management in despair threw together a few dozen tables and let the horde take the place. There was song and more song. It seems that the strains of an old favorite rang thru the din "little Red Wing" led by the ubiquitous maestro Rak, who accepted all donations.

Undoubtedly the affair was marked by many a headache the next morning but it was worth it. The Fraternity is planning more free-for-alls in the near future. The Fraternity is indebted to the unselfish cooperation of its committee.

Our sincere condolences to Mr. Robert Strout on the passing of his wife, Glenda Strout September 1936.

Our sincere condolences to Dr. Irving Lunt on the passing of his wife, Ruth Lunt, November 1936.

DR. LOUIS ANAPOLLE

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Mental Diseases in Relation to the Eye

Mental diseases are a vast and ever-increasing interest for study. In order to present an intelligible understanding of them and their relation to the eyes, it is imperative to be acquainted with the more important types of mental derangement.

The primary causes of mental disease are:—heredity, or the transmission of abnormal physical and psychological characteristics: functional disorders, causing impairment of the activity of an organ of body or mind with no apparent injury to the organ itself: environment, such as unhappy home life, dissatisfaction with one's profession or vocation, and financial and marital failures: pathological changes, for example, a slow wasting disease: and finally, toxicity, which includes any systemic poisoning of the body.

Mental disorders may either cause abnormal vision, or abnormous vision, mental illness.

Under hereditary psychopathic diseases there are several of importance. One of these is a tendency to amentia, a form of feeble-mindedness in which the individual's organs of vision have not fully developed, and the person is blind. For this reason, he is handicapped, and must be classified as delinquent; or the sight has only partially matured, and this condition of ametropia, regardless of its form, is corrected by properly fitted glasses, and the individual is classified as normal. Another hereditary disease is congenital lues or syphilis, in which the child is often born blind and generally dies within six months, and, of those who survive, the oldest are often mentally defective or at least bear throughout life some physical marks of their inheritance. Still another hereditary disorder is a tendency to hysteria. In this condition the individual has an area, anaesthetic to touch, pain, etc. He is for months, blind and deaf. He is honest in his statements, for he is physically blind, physically deaf and anaesthetic. The fact that during these periods we can prove that

the sense of vision and hearing does determine his reflexes and automatic actions, does not disprove his statements, that he (consciously) does not see, hear, or feel.

Functional psychopathic disorders affecting sight are classified as follows:— Senile dementia, a gradual slowing down of body processes, and hardening of the arteries, usually present in aged individuals. Partial occlusion of the retinal arteries prevents proper nourishment to the nerve supply of the retina, thereby diminishing the faculty of vision. Hemiplegia, or paralysis of either side of the body due to what is known by the layman as "shock," may also paralyze the eye wholly or partially. Post-encephalitis, the state in which an individual is left following sleeping-sickness, is characterized by a blank stare, so that the head must be turned in order to change the scope of vision. There are many disorders in this group, but, as yet, science has no direct method for their prevention or cure.

Environment is a self-evident influence in the physical and mental well-being of any individual, affecting not only the eyes, but the entire human make-up. Proper or improper lighting, diet, and other internal and external factors all play their part. Then there are the mental aspects of environment resulting in neuroses and psychoses, either as a defence mechanism against a handicap (as poor vision) or failure of adjustment to circumstances. This maladjustment may lead to neurasthenia, or introverted ideas of a lack of self-respect in the eyes of one's fellowmen, causing sleeplessness and continual exaggerated worry. If this state persists, dementia praecox, more commonly known as schizophrenia, results, and the individual builds an imaginary world of his own, in which he lives. In this state of mental aberration, visual hallucinations appear, in which the individual is unaware of his present surroundings, actually seeing and talking with people of his own creation. Strictly

speaking, this is called simple dementia. Re-education is possible if the disease is recognized at an early stage. The etiology of this disease is unknown, therefore there is no treatment for the optic disturbances.

Finally, the toxic group includes chronic alcoholism with partial or complete blindness due to excessive use of inferior grades of alcohol; acute alcoholism resulting in delirium tremens and temporary visual hallucinations, with a return to normalcy after the alcohol is thrown off by the system.

Many disorders of this character arise from the excessive use of narcotics and medicines. These symptoms disappear when the drug is discontinued. Any organic disease with a high fever, as typhoid, etc., produces a delirium accompanied by hallucinations, visual and auditory, which disappear when the disease has run its course.

In conclusion, it is important to realize that proper vision is an essential attribute to good health, and vice versa.

W. E. G.

Jest Juniors

We set aside our Practical Optics notes a few nights ago, and took up our scrapbook — an “old faithful,” for relaxation, — and what do you think we came across at first glance? This old classic:

“Behold the mighty dinosaur,
Not only for his weight and strength,
But for his intellectual length,
You will observe by these remains
The creature had two sets of brains—
One in his head (the usual place),
The other at his spinal base.
Thus he could reason a priori
As well as a posteriori.
*No problem bothered him a bit—
He made both head and tail of it!*
If one brain found the pressure strong,
It passed a few ideas along.
If something slipped his forward mind,
T’was rescued by the one behind.
And if in error he was caught,
He had a saving after thought” — etc, etc.
Have you ever read it? Well, anyhow,
it made us think of Doc Namias again, and
so we abandoned the quest for relaxation,
and spent the rest of the night on our Hy-
giene notes.

Ken Holt was telling the boys of the lengthy debate he had with Dr. Cline, one lunch hour, on the Westphal-Piltz reaction. “Yep,” said Ken, “between the two of us, we certainly did cover the subject.” And

then there’s the one about the flea and the elephant who walked side by side over a little bridge: said the flea to the elephant after they had crossed, “Boy! We sure did shake that thing!”

In one of his letters home last year, Franklin Perry wrote, “I got an A in optometry, Dad. That’s quite a feather in my cap.” And in a subsequent letter he wrote, “I got an A in physiology, Dad. That’s another feather in my cap!” And in similar fashion he continued, at periodic intervals, to tell the folks back home of his scholastic accomplishments. Came the spring recess, and Franklin, having contributed handsomely to the Fenway Bowling Alleys coffers, wired home: Would like to come home for the holidays stop send money order for fifteen dollars.”

It was not long before he received this reply: “How about all those feathers of yours stop try flying home”—Dad.

Now take Bob Parmett, for example, There’s a *sensible* chap for you! He tells us he spends part of his allowance on women, part of it on liquor, and the rest of it he spends foolishly.

Chalk one up for Paul Burns. Dr. Green gave the class a problem one day and received an astounding variety of answers.

“Burns, what did you get?”

“.75 D”

“Wrong. The answer is 1.75 D.”

“That’s what I said. That’s one you didn’t get!”

Dr. Sloan was calling the roll one day, and when he came to the name of Miss Meagher, of the Junior B’s, he threw up his hands in surrender.

“Say,” he begged, “once and for all, how do you pronounce that name?”

Immediately some clown enlightened him.

“It’s Mar. The “gh” is silent, as in slaughter!”

Guess who (what) this is:

“I like home-work. It fascinates me. I can sit and look at it for hours” — Thaddeus Levandoski.

On the horizon three separate thunderstorms talked darkly to each other. — Drs. Green, Namias, and Cline, during lunch hour, just before the mid-term exams.

... As he looked in his slim boyhood, sixty pounds ago. — Dr. Namias.

He regrets that he isn’t his own sylph any more. — Fernand Fortin.

... the heckling of the text by the footnotes. — Duke-Elder.

Chairs that caress the body (American Seating Co. Advertisement). — the steel chairs in Junior B class room.

Senior News

According to Huddy, intelligent patients are as plentiful as hairs on an egg. (As superfluous as sebaceous follicles on the periosteum of the Hen fruit!)

Fineberg states in his patient questionnaire that some patients have small pox and other childhood diseases (Senile Cataract might also be included!)

Kendall (Candle) Green, of Parallax jest fame; “use me if the flashlight bulb burns out,” insists that firemen cannot be subject to the red glass test due to their “alternating suspenders!”

In answer to Berman’s query, “How many minutes in an Angstrom unit?” Dr. Cline submits the following, “How many years in a dandelion and all types of etchings will be accepted by the Fraternity!”

High Lights of the Frat Hallowe’en Dance! !

“Minnetonka” Levin outdid himself as master of ceremonials and together with Al Roy formed an invincible duo!

Carvins’ “Dance of the Seven Veils” was so alluring as to bring him the grand door prize of that shiny \$10 gold piece. (By the way he is organizing a new club—C. C. C. or Chelsea’s Chimpanyical Cuckoos!)

Malamut has finally taken the last straw and was actually caught singing “In the merry, merry month of Fay! ! !”

By the way, the territory on the opposite side of the Sumner Tunnel seems to be rather alluring to several members of the Senior class! (NAT so bad either)! Visits will once more be in order in the very near future! !

Fineberg’s description of the Providence curves (He was a visitor last Sunday) lends able support to the fact the M. P. has a choice — of the best! ! !

Doc Green’s references to J. A.’s. cherubic countenance, baby doll face and what have you only lends support to the fact that Joe’s protuberance sure can flourish!

Dr. Namias was seriously caught in the act of neutralizing the hole in the doughnut and leading the II O E boys in their last yell:—“Base in, Base out and zylonite, neutralize it now and don’t take all night ! !”

Preston Smith added to the hilarity with an ambidexterous manipulation of both his feet Nervanelaward (I wonder what Doc. Green would have found in a field study.)

Popular Beliefs and Superstitions about the Eyes

Popular beliefs and superstitions regarding human ailments and their remedies have existed since the dawn of civilization. Most of them are utterly absurd, and have been the cause of considerable grief. On the other hand, others have been of some little value, while still others have done neither harm nor good, except, possibly, that they might have had some psychological effect, e. g., instilling faith and confidence in the patient. It is a fact, however, that many of the world's greatest medical contributions have come from men who were keen enough to observe a grain of truth in one of these popular beliefs, and intelligent enough to investigate and improve upon it.

For instance, in some Spanish countries today, lemon juice is still being used as a remedy for babies' "sore eyes". Today we know that the citric acid of the lemon has no healing qualities, but that its cauterizing action would help in destroying conjunctival bacteria. One modern method of treating gonorrhœal ophthalmia entails the use of silver nitrate, which is simply an improvement over lemon juice as a cauterizing agent.

There still exists today another popular remedy for "sore eyes", which has by no means been similarly ratified by twentieth-century medical science. Fresh urine, no less, is the home-remedy to which reference is made. It must have gained its favor because it is warm and does not "burn" as much as water. Unfortunately, however, it has undoubtedly ruined millions of lives through gonorrhœal and syphilitic infection.

Several superstitions are still extant with regard to styes and their cure. Some are absolutely preposterous, except, possibly, for their psychological value. For example, imagine walking to a cross-roads and turning around three times — all to cure a sty;

or wearing nut-meg around the neck! Incidentally, with regard to the latter, there is a similar belief that wearing asafetida around the neck will prevent sore-throats or diphtheria. Here there is additional value — counter-irritation: possibility of the asafetida's out-stinking the sore-throat. Another incredible belief is that rubbing a black cat's tail nine times over the eye will cure a sty. The outstanding feature of this unusual cure is the surprise to both cat and patient. In the scuffle that would in all probability ensue, anything might happen to the sty, due to a misrepresentation of motives, especially on the part of the cat!

There is a story in the Old Testament that brings to light a most remarkable coincidence between a modern and an ancient cure for corneal ulcers. Tobit was reclining in his court-yard, and a bird flying overhead dropped some excrement in his eye and blinded him. The diagnosis today would no doubt be corneal ulcers of pneumococcal origin. Tobias, the son of Tobit, went to bathe in the Tigris, and caught a fish that had leapt out of the river onto the bank. The Angel of the Lord told him to save its gall, "to anoint a man who has whiten in his eye, and he shall be healed". Tobias ran to his father, told him to have courage, and applied the gall to his eye. Tobit's eye began to smart, and he rubbed it, and lo! the whiten fell away from his eye, and when he saw his son, he fell on his neck and wept.

This is the remarkable coincidence: today bile salts are being used experimentally in the treatment of pneumococcal ulcers of the cornea. They are among the few drugs that will dissolve cultures of pneumococci.

(Digest of an article by BAHN in the New Orleans Medical and Surgical Journal).



Here and There in Modern Optometry

Dr. Jerome R. Leavitt

Foremost of the problems confronting the progress of professional optometry is the necessity of bringing to the mind of the adult world a realization that we are doing things with the visual apparatus which have never before been required of it, for which it could not have been primarily intended. Over many years man has thought of eyes as organs with which he merely *saw*; if he could see clearly at a distance nothing else was required of him. To-day the resolving power of man's visual apparatus, for seeing at a distance, has been sacrificed for a greater binocular efficiency at a nearer working distance. This situation is brought about by the waning necessity of high visual acuity for self preservation while the associated ocular functions at a closer distance have become the criterion of maintaining a successful existence.

We are but a few generations beyond the primitive world when man was a hunter. This existence of man goes back at least a million years, and each generation has survived, for it had adequate ability to see clearly at distant points. Consequently, there has been handed down to us, from our ancestry, a visual apparatus whose basic nervous and muscular principles were to promote acute distant vision. Added to this was the great advantage of single binocular vision making possible depth perception, found in no other living structures possessing traits comparable to man's.

The child on the floor of the Cromagnon cave and the child of to-day reached the same state of development until the 6th or 7th year. The youth of the Cromagnon era was forced to secure his existence by being schooled in the art and prowess that made for self defence, security and well being. The youth of today however is confined, for the most part, to school rooms, libraries and the close confines of the public square, and required to concentrate and absorb material at restricted distances. Thus with the sci-

entific advancement of our profession, we are in a position to correlate the quality of ocular function with its habitual use, and part of this work is to acquaint the layman with the fact that the eyes are but part of a physical, physiological and psychological system producing vision.

Men can see the advance in every other work and profession. We have seen metallurgy summated in the production of monstrous trains out of metals that did not exist a decade ago. We have seen radio conquer the air waves and approximate seemingly infinite distances. Yet in the face of such advances educators, public officials and parents continue to think of eyes as purely physical organs whose prime purpose is sight. Little do these persons, concerned with the welfare of growing children, realize that there is an appalling percentage of failures in school due to visual inefficiency. These

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A year ago we increased our floor space, added new equipment and machinery, but we found this inadequate to take care of our increased prescription work, due to the excellent support we received from our friends in New England.

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children are attempting to use a visual system proficient in the past decades, now hopelessly out moded, without the necessary training and adaptation. This applies to young business men of to-day; men who have failed without apparent cause after having exhibited general efficiency in an outdoor environment. We find that these individuals, on changing their environment, find it impossible to concentrate and accomplish their work. These individuals are not necessarily aware of discomfort, they are not conscious of any "eyestrain," but it is impossible for them to carry on and their work is inefficient. It is more and more apparent that many failures due to lack of proper concentration revert back to an inefficiently adapted visual system for that particular work.

In my opinion one of the most cruel of practices at the present time is the "eye-test" in the public schools. It merely determines whether or not the child can see at a distance, then the child is placed at a desk and asked to study at variable distances. The same thing applies to business men and factory owners who have the eyesight of their employees examined, thus proving they have, normal distant vision but not ascertaining as to how efficient a person's visual apparatus will be for a definite task or job that may be required of him.

Optometry, in taking its place among the professions of to-day skilled in maintaining human eyes comfort, must educate the layman as to what it really is. Its purpose being the correction and readaptation of the entire visual apparatus for comfortable and efficient use. A great deal of this work depends upon the new graduates, men well acquainted with advanced optometry, and who are just commencing a career of research beneficial to optometric progress. You as students, are receiving your primary courses now and then when your scholastic activity is finished then you will have acquired a basis which you can supplement by conscientious study. With that background you will best acquire the laymen's appre-

ciation of your work, and above all you will be upholding the honored standards of your profession, a factor very essential in a learned man's solution of life.

Let me go off on a tangent for a time to talk to the seniors especially, and to quote a little from our mutual friend, Mr. Ralph Barstow. Mr. Barstow discusses habit — something that evades our conscious mind — often being the difference between success and failure. Habit is a form of associated action becoming more of a reflex through use, and its ultimate result is attributed to the conscious mind. Thus any habit formed is directly associated with character, and its formation must be carefully pondered. Dominant among the degrading habits formed is an atrocious personality, ill kept office, desultory examination technique and consciously over-looking deficiencies and failures. Let these serve as illustrations why in forming habits one must try to acquire those which are in accord with the professional and social standing.

Joseph Antanelis: Peace and harmony.

Pearl Amici: Russian and American Music.

Harold Adelson: Wall Street, collapsed.

Joseph Berger: Big Butter & Egg Man.

Edward Berman: Humor with a sharp edge.

George Carvin: Trouble waiting to break out.

Abraham Cohen: Strange Melody.

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MASSACHUSETTS AVENUE

A New Program Every Thursday

Fall Formal

On Friday evening, the 13th, at the Brunswick Casino, the Pi Omicron Sigma Fraternity and the Epsilon Omicron Sigma Sorority held the first formal of the season. The couples were placed on the Organ Balcony where they had the place to themselves. The orchestra complied with many requests especially in honor of "Ken's Birthday." The affair was quite a success and is the forerunner of several affairs in this particularly busy season. Among the attendance several faces stood out such as:

Dr. Namias and his very busy 14's.

Dr. Green trying to enjoy it — before exams.

Dr. Cline dreamily adjusting his P. R. for the "filet mignon."

Hal Shepard — always immaculate.

Mickey — with a tux that fitted him — probably because there was no camera in it.

Miss Eleanor Lynch, looking triumphant in full regalia.

Johnny and Nina — of course.

Roy and a royal blonde.

Ken "Candle" Greene trying hard to hide the fact that it wasn't his birthday.

MacNeill, gentleman from the Junior class.

Ken Holt in a "claw-hammer" suit trying to look about 5 years older.

The Dexter Boys with Weathers bringing up the van-guard.

The affair broke up when the waiters pulled the chairs from beneath the diners; and the crowd reassembled in such dives as the 'old France' 'Fox and Hounds' 'Merry-go-round' 'Napoleon Club' etc, etc.

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Our Advertisers Lead — We Follow

Our Own and Our Cousins' Eyes

by DR. THOMAS HALL SHASTID

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(Continued from October issue)

I have said that fish introduced accommodation into eyes, *i. e.*, a focusing apparatus. Their accommodation is produced in several ways, but chiefly by a band of contractile tissue running from the head of the optic nerve to the posterior surface of the lens. This band is called the "falciform process". When it contracts, it pulls the lens back nearer the retina. When it lets go, it permits the lens, by virtue of its elastic attachments, to run forward again. One may see, from these facts, that the fish's eye is at rest when focused for near, but that it is engaged in active accommodation when looking at a distance. This is just the reverse of the situation in our own eyes. In other words, fishes have "negative accommodation".

The falciform process should have a great interest for ophthalmologists. In amphibians, reptiles and birds, it has lost its attachment to the posterior surface of the lens, but retained its attachment to the optic disc; and, in these classes of animals, it is called "the pecten". In many snakes it has disappeared altogether. It does not occur in human beings, except in the form of what is called "the persistent hyaloid artery". This artery, in the last few weeks of fetal life, should shrink and disappear. But sometimes it persists, and then it is seen by the ophthalmologist as a thin, gray vascular cord, running from nerve-head to posterior surface of lens, exactly in the path of the old accommodation band, or "falciform process" of the fish. Sometimes it presents a number of loose, grayish tags, or flaps. The vision in these cases may be normal, but often it is low. One can hardly understand the persistent hyaloid artery without some knowledge of the fish's eye; and one is also obliged to speculate, in view of the remarkable results of Przibram with the un-

developed eye of cave animals, as to what the effect of continued exposure of the eye to spectrum red light on a persistent hyaloid artery would be. If you ever have a favorable opportunity, make the experiment and see. I would suggest that a baby with eyes suffering from any sort or kind of arrested development, should be kept for some time in a black room, protected from sunlight, but with free ventilation and a continuous ruby red light. From time to time the eyes could be bandaged, and the body of the child exposed to ultra-violet radiations, so that the child could not suffer from sunlight starvation. In view of the fact that light is the raw material which eyes are constantly manufacturing into vision, it is extremely strange, especially in view of the Przibram experiments, that the therapeutic effect of light generally on human eyes has never been worked out.

THE FIRST IRIDES AND PUPILS

Fishes also introduced into the world the iris and the pupil. The pupils of all fishes are declared by some observers to be oval. I have never found one single fish's pupil that was. They are all round, except a few very unusual ones. Of course you must not look at the pupil of a dead fish, which is round as a matter of course. Even a cat's pupil, which is long and vertical, when contracted, for looking up and down trees, is perfectly round in low illumination and when its owner is excited or dead.

But all the fishes' eyes that I have examined have had round pupils, and these, by the way, have had only a little response to light.

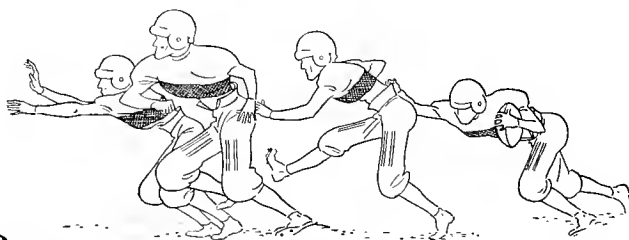
Before the fish, there were no extrinsic muscles of the eyes. In some of the molluscs and arthropods, eyes were set on eye-stalks, and these stalks were movable. But there were no eye muscles proper. Now,

in many fish, there are muscles that move the eyes in their sockets, thought only to a slight extent.

There are fishes with thermometer eyes and fishes with incandescent eyes which illuminate the sea so that the other kinds of eyes of the same animal may have vision. The choroid coat of some fishes' eyes is a wonderful reflector, just like the choroid coat of cat, dog, deer, and so forth, or animals whose eyes are generally known to shine in the dark. The part of the choroid that does the reflecting is called the "tapetum lucidum". This tapetum runs away round in the front part of the eye, and there forms the anterior layer of the fish's iris or the *argentea*. So the fish's eye shines in the dark, both because of the light reflected from the interior of the eye and also because of the light reflected from the anterior surface of the iris. In the cat, dog, lion, and so on, the reflection is only from the interior of the eye.

I wish I had time to describe the eyes of many peculiar fish: those of the Anableps tetrophthalmus, for example, which have each, two pupils, one for seeing in water, the other for seeing in air. Also the eyes of the pleuronectidae; the flounders. and so on. These eyes, in the fish's youth, lie, in the usual way, one on each side of the head. But, as the animal grows older, it gets to swimming only along the bottom of its habitat, scraping constantly the gravel and sand with one side of its head, and so its skull twists until the two eyes lie on one and the same side of the head, or the upper. This fact you can easily prove to yourself in almost any fish market. All the pleuronectidae, or side swimmers, have such eyes. In one species, the eye that shifts does not pass round the skull, but actually goes straight through it, till it comes to lie in identically the same socket as the other or non-migrating eye.

(Continued in December issue)



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